

### ABSTRACT

A method of manufacturing a flow connector, the flow connector produced thereby, and an insert incorporated therein are provided. The method comprises providing at least one insert of a composition comprising at least one polymer and having a threaded bore for  
5 attachment to a threaded flow conduit. A composition comprising at least one polymer is molded onto the at least one insert to form a flow connector having a wall thickness defining an internal cavity and comprising at least one aperture defined by the at least one insert through the wall thickness. The insert can also include circumferential grooves and/or spurs located on an exterior surface disposed around the threaded bore and can also comprise one or  
10 more reinforcement materials including fiberglass, an inert material, and combinations thereof.